



8165 E Kaiser Blvd. Anaheim, CA 92808
www.lightlaboratory.com

Report No: L051701202



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Issue Date: 5/11/2017

Prepared For: Archlit
42 Ithanell Rd., Hopatcong NJ 07843

Model Number: Da-30HO-DoAs-xx-xx-xx-(1)D-xx

Test: Photometric/Electrical Test

Standards Used: Appropriate part or all test guidelines were used for test performed:
IESNA LM79: 2008 Approved Methods for Electrical and Photometric Measurements of Solid-State Lighting Products
ANSI NEMA ANSLG C78.377: 2008 Specification of the Chromaticity of Solid State Lighting Products
ANSI C82.77:2002: Harmonic Emission Limits-Related Quality Requirements for Lighting Equipment

Description of Sample: Client submitted the sample. Received in working and undamaged condition. No modifications were necessary.

Testing Condition: Fixture is tested with no special conditions.

Sample Arrival Date: 5/4/17

Date of Tests: 5/10/17 - 5/11/17

Seasoning of Sample: No seasoning was performed in accordance with IESNA LM-79.

Equipment List

Equipment Used	Model No	Stock No	Calibration Due Date
Chroma Programmable AC Source	61604	PS-AC02	--
Yokogawa Digital Power Meter	WT210	MT-EL06-S1	11/28/17
ITECH	IT6122	PS-DC03-S1	11/28/17
Fluke Digital Thermometer	52k/J	MT-TP02-GC	11/28/17
LLI Type C Goniophotometer System	RMG-C-MKII	CD-LL04-GC	--
LLI 2M Sphere	2MR97	CD-SN03-S2	--
LLI Spectroradiometer	SPR-3000	MT-SC01-S2	Before Use

*All Results in accordance to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting.

Test Summary

Manufacturer:	Archlit
Model Number:	Da-30HO-DoAs-xx-xx-xx-(1)D-xx
Driver Model Number:	INVENTRONICS EUC-052S105DT
Total Lumens:	4355.19
Input Voltage (VAC/60Hz):	277.00
Input Current (Amp):	0.2
Input Power (W):	53.88
Input Power Factor:	0.95
Current ATHD @ 120V(%):	N/A
Current ATHD @ 277V(%):	9%
Efficacy:	81
Ambient Temperature (°C):	25.0
Stabilization Time (Hours):	1:05
Total Operating Time (Hours):	1:35

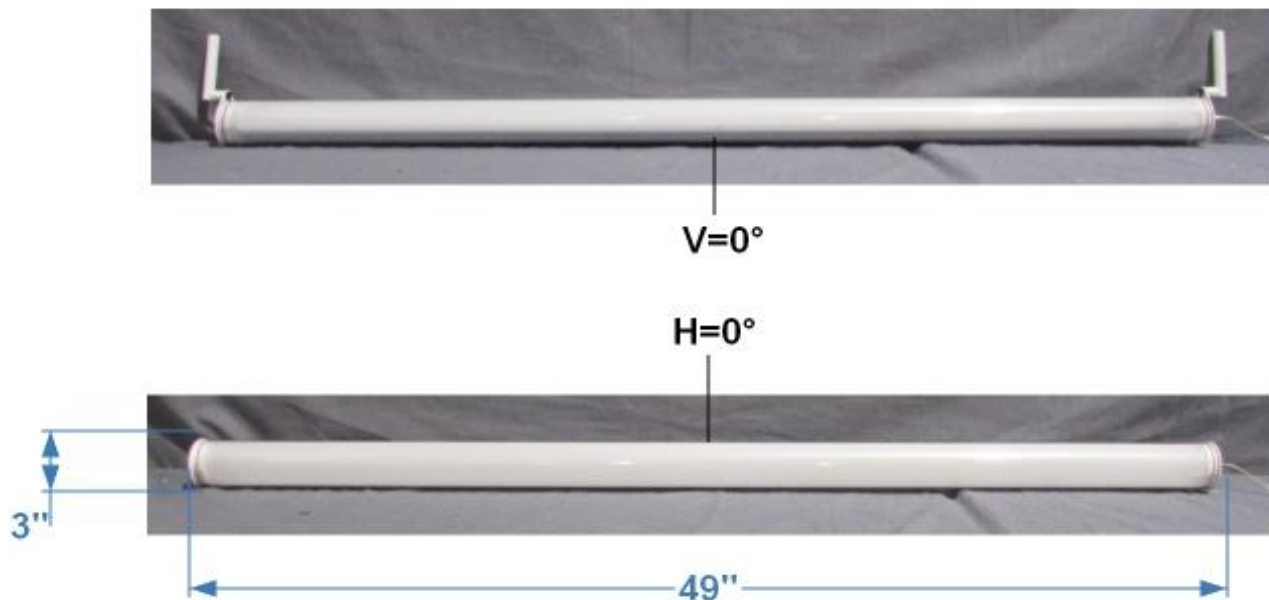


FIG.1 LUMINAIRE



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Test Methods

Photometric Measurements - Goniophotometer

A Custom Light Laboratory Type C Rotating Mirror Goniophotometer was used to measure candelas(intensity) at each angle of distribution as defined by IESNA for the appropriate fixture type.

Ambient temperature is set to 25°C and is measured from the center of the fixture, within 1ft from the outside of the fixture. Temperature is maintained at 25°C throughout the testing process and the sample is stabilized for at least 30mins and longer as necessary for the sample to achieve stabilization.

Electrical measurements are measured using the listed equipment.

Spectral Measurements - Integrating Sphere

A Sensing Spectroradiometer SPR-3000, in conjunction with Light Laboratory 2 meter integrating sphere was used to measure chromaticity coordinates, correlated color temperature(CCT) and the color rendering index(CRI) for each sample.

Ambient temperature is set to 25°C and is measured from the center of the fixture, within 1ft from the outside of the fixture. Temperature is maintained at 25°C throughout the testing process and the sample is stabilized for at least 30mins and longer as necessary for the sample to achieve stabilization.

Electrical measurements are measured using the listed equipment.

Disclaimers:

This report must not be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST or any agency of Federal Government.

Report Prepared by : Keyur Patel

Test Report Released by:

Jeff Ahn
Engineering Manager

Test Report Reviewed by:

Steve Kang
Quality Assurance

**Attached are photometric data reports. Total number of pages: 8*

**All Results in accordance to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting.*



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Photometric Test Report

IES INDOOR REPORT

PHOTOMETRIC FILENAME : L051701202.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L051701202
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
[ISSUE DATE] 5/11/2017
[MANUFAC] Archlit
[LUMCAT] Da-30HO-DoAs-xx-xx-xx-(1)D-xx
[LUMINAIRE] Da Outdoor High Output aiming down ,
[more] Asymmetrical reflector . With diffuser film
[BALLASTCAT] INVENTRONICS EUC-052S105DT
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
[INPUT] 277VAC, 53.88W
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4355
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	53.88
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.40
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.19 ft
Luminous Width (90-270)	3.88 ft
Luminous Height	0.17 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10648	10528	14171
55	9680	9257	12494
65	8893	8091	10160
75	8313	7214	6685
85	7991	6648	2788

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L051701202.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0	1197	1197	1197	1197	1197	1197	1197	1197	1197
5	1215	1211	1203	1193	1188	1182	1183	1175	1179
10	1218	1213	1196	1179	1168	1158	1155	1142	1149
15	1210	1204	1177	1150	1134	1120	1115	1100	1106
20	1188	1183	1144	1112	1087	1070	1068	1047	1057
25	1156	1150	1101	1063	1031	1012	1010	991	1001
30	1119	1106	1050	999	966	949	942	927	939
35	1075	1061	989	930	888	869	872	858	873
40	1027	1009	919	853	804	788	799	784	802
45	978	954	849	770	717	699	722	711	730
50	924	896	781	676	623	615	637	638	658
55	867	837	709	586	522	523	557	561	586
60	810	776	637	497	421	433	481	494	518
65	752	713	568	409	322	328	408	429	452
70	696	656	504	328	226	269	340	364	391
75	640	601	445	255	138	195	277	311	335
80	587	544	391	193	68	133	219	260	283
85	536	494	341	149	25	83	172	212	237
90	488	449	305	117	7	49	130	171	195
95	442	403	268	95	5	28	95	137	159
100	398	363	235	83	6	16	69	107	128
105	360	325	209	75	7	10	48	82	101
110	325	292	187	70	8	9	33	60	85
115	291	261	169	68	10	9	22	45	57
120	258	233	152	67	13	10	17	31	42
125	230	208	139	64	15	10	16	24	30
130	204	185	124	61	17	11	16	21	24
135	179	166	109	59	19	12	15	20	21
140	157	147	98	56	21	13	15	19	20
145	139	129	88	54	23	14	15	18	19
150	120	109	81	51	27	17	16	18	19
155	102	94	72	50	31	20	17	17	19
160	87	75	63	49	35	24	19	18	19
165	73	62	56	49	39	28	22	20	20
170	55	53	51	47	43	33	27	24	19
175	29	45	46	45	45	38	34	31	22
180	0	0	0	0	0	0	0	0	0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L051701202.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	436.10	N.A.	10.00
0-30	922.01	N.A.	21.20
0-40	1504.12	N.A.	34.50
0-60	2672.33	N.A.	61.40
0-80	3502.54	N.A.	80.40
0-90	3759.45	N.A.	86.30
10-90	3646.26	N.A.	83.70
20-40	1068.02	N.A.	24.50
20-50	1673.7	N.A.	38.40
40-70	1638.7	N.A.	37.60
60-80	830.21	N.A.	19.10
70-80	359.72	N.A.	8.30
80-90	256.91	N.A.	5.90
90-110	314.96	N.A.	7.20
90-120	409.78	N.A.	9.40
90-130	478.12	N.A.	11.00
90-150	559.96	N.A.	12.90
90-180	595.74	N.A.	13.70
110-180	280.78	N.A.	6.40
0-180	4355.19	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	113.19
10-20	322.91
20-30	485.91
30-40	582.11
40-50	605.68
50-60	562.54
60-70	470.49
70-80	359.72
80-90	256.91
90-100	183.30
100-110	131.65
110-120	94.82
120-130	68.35
130-140	48.66
140-150	33.18
150-160	21.01
160-170	11.51
170-180	3.26

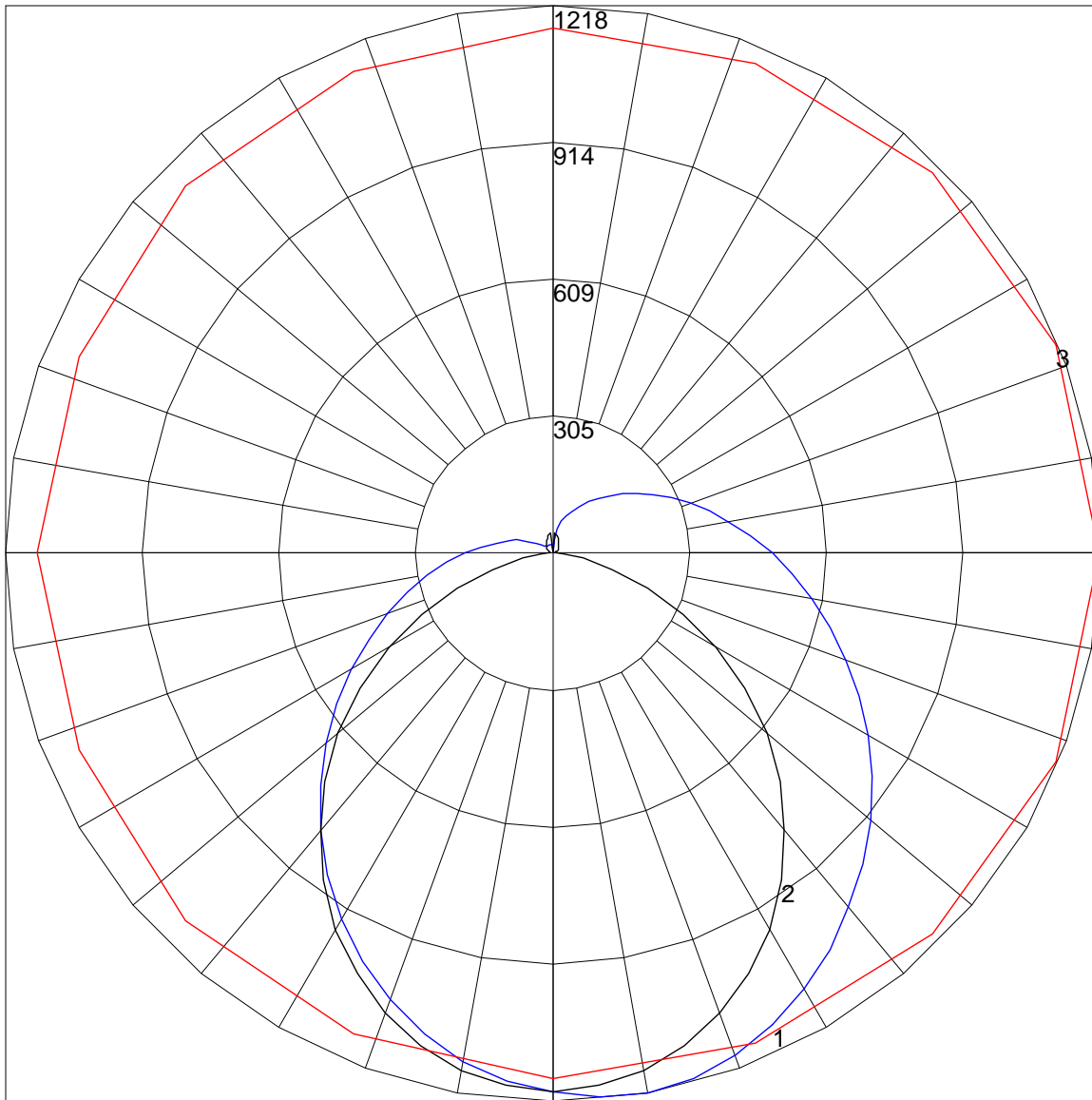
IES INDOOR REPORT
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	116	116	116	116	112	112	112	112	104	104	104	96	96	96	89	89	89	86
1	104	98	93	89	99	94	90	86	88	84	81	81	78	76	76	73	71	68
2	94	85	77	71	90	82	75	69	76	70	65	70	66	62	65	62	58	55
3	85	74	65	58	81	71	63	57	66	60	54	62	56	51	57	53	49	46
4	78	65	56	49	74	63	54	48	59	51	46	55	49	44	51	46	42	39
5	71	58	49	42	68	56	48	41	52	45	39	49	43	38	46	40	36	34
6	66	52	43	36	63	50	42	36	47	40	34	44	38	33	41	36	32	29
7	61	47	38	32	58	46	37	32	43	36	30	40	34	29	38	32	28	26
8	57	43	34	29	54	42	34	28	39	32	27	37	31	26	35	29	25	23
9	53	39	31	26	51	38	30	25	36	29	24	34	28	23	32	27	23	21
10	50	36	28	23	48	35	28	23	33	27	22	32	26	21	30	24	21	19

POLAR GRAPH



Maximum Candela = 1218 Located At Horizontal Angle = 0, Vertical Angle = 10

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Vertical Plane Through Horizontal Angles (90 - 270)

3 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)